## **CLAIM LISTING**

Claim 1 (Currently Amended): A plant comprising a cell comprising a functional mammalian enzyme or functional fragment thereof providing N-glycan biosynthesis additionally having been provided with an expression vector comprising a nucleic acid encoding a thyroid-stimulating hormone or gonadotrophin or gonadotrophin-receptor or functional fragment thereof.

Claim 2 (Original): A plant according to claim 1 wherein said enzyme comprises human β1,4-galactosyltransferase.

Claim 3 (Currently Amended): A plant according to claim 1 [[or 2]] wherein said thyroid-stimulating hormone or gonadotrophin or gonadotrophin-receptor or functional fragment thereof comprises an extended N-linked glycan.

Claim 4 (Original): A plant according to claim 3 wherein a said extended N-linked glycan comprises galactose.

Claim 5 (Original): A plant according to claim 4 wherein a said extended N-linked glycan is devoid of xylose.

Claim 6 (Original): A plant according to claim 4 wherein a said extended N-linked glycan is devoid of fucose.

Claim 7 (Currently Amended): A plant according to anyone of claims 1 to 6 claim 1 wherein said expression vector is derived from a plant virus.

Claim 8 (Original): A plant according to claim 7 wherein said virus is a tobamovirus such as tobacco mosaic virus.

Claim 9 (Currently Amended): A plant according to anyone of claims 1 to 8 claim 1 which comprises a tobacco plant.

Claim 10 (Cancelled): Cancelled

Claim 11 (Currently Amended): Use of a plant according to anyone of claims 1 to 10

claim 1 to produce a desired thyroid-stimulating hormone or gonadotrophin or gonadotrophin-

receptor or functional fragment thereof.

Claim 12 (Currently Amended): Use according to claim 11 wherein said thyroid-

stimulating hormone or gonadotrophin or gonadotrophin-receptor or functional fragment thereof

comprises an extended N-linked glycan [[et]] at least comprising galactose.

Claim 13 (Currently Amended): A method for obtaining a desired thyroid-stimulating

hormone or gonadotrophin or gonadotrophin-receptor or functional fragment thereof comprising

cultivating a plant according to anyone of claims 1 to 10 claim 1 until said plant has reached a

harvestable stage, harvesting and fractionating said plant to obtain fractionated plant material and

at least partly isolating said thyroid-stimulating hormone or gonadotrophin or gonadotrophin-

receptor from said fractionated plant material.

Claim 14 (Original): A plant-derived thyroid-stimulating hormone or gonadotrophin or

gonadotrophin-receptor or functional fragment thereof comprising an extended N-linked glycan

at least comprising galactose.

Claim 15 (Currently Amended): A plant-derived thyroid-stimulating hormone or

gonadotrophin or gonadotrophin-receptor or functional fragment thereof obtained by a method

according to claim 13.

Claim 16 (Currently Amended): Use of a thyroid-stimulating hormone or gonadotrophin

or gonadotrophin-receptor or functional fragment thereof according to claim 14 [[or 15]] for the

production of a pharmaceutical composition.

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Claim 17 (Currently Amended): Use of a gonadotrophin or gonadotrophin-receptor or

functional fragment thereof according to claim 14 [[or 15]] for the production of a

pharmaceutical composition for the treatment of a reproductive disorder.

Claim 18 (Original): A pharmaceutical composition comprising a thyroid-stimulating

hormone or gonadotrophin or gonadotrophin-receptor or functional fragment thereof according

to claim 14 [[or 15]].

Claim 19 (New): Use of a thyroid-stimulating hormone or gonadotrophin-receptor or

functional fragment thereof according to claim 15 for the production of a pharmaceutical

composition.

Claim 20 (New): Use of a gonadotrophin-receptor or functional fragment thereof

according to claim 15 for the production of a pharmaceutical composition for the treatment of a

reproductive disorder.

Claim 21 (New): A pharmaceutical composition comprising a thyroid-stimulating

hormone or gonadotrophin-receptor or functional fragment thereof according to claim 15.

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